APPLICATION FOR PIPELINE or WIRE LINE - CROSSING AND/OR LONGITUDINAL

Jones Lang LaSalle Brokerage, Inc.
ATTN: Permit Services
4200 Buckingham, Suite 110
Fort Worth, TX 76155

We submit for your approval the following specifications for a pipeline or wire line we propose to build across and/or along **BNSF RAILWAY COMPANY'S** right-of-way, as shown on the enclosed location plan and detailed sketch.

***Legal* name of company/municipality who will own the pipeline/ wire line:** City of Harrisburg, SD
State in which incorporated: SD (If not incorporated, please attach name of owners or partners.) _____
Name of contact for ownership entity: Andrew Pietrus Phone #: 605-743-5872
EMail Address: andrew.pietrus@harrisburgsd.gov Fax: _____
Mailing Address: 301 E. Willow St., Harrisburg, SD 57032

Expected Start Date: 2022 or 2023
Is this project **ARRA** funded? Yes ☒ No ☐
Is applicant a condemning authority? Yes ☒ No ☐
Is applicant a Railroad Shipper? Yes ☐ No ☒
If yes, BNSF Marketing Rep. name: _____ Phone # _____
Was this service requested by BNSF? Yes ☐ No ☒
If yes, person requesting service: _____ Phone # _____
Is this installation in conjunction with a track or track expansion project? Yes ☐ No ☒
If yes, BNSF contact name: _____ Phone # _____
Is this installation associated with a public road crossing/widening or a grade separation project? Yes ☐ No ☒
If yes, please provide details and plans for said crossing/widening or grade separation project with your application.

Type of Encroachment: Crossing ☒ Longitudinal ☐ Both ☐
Name of nearest town on RR Harrisburg County Lincoln State SD
Name of nearest roadway crossing RR? 274th Street
Location of Encroachment: SE 1/4 Section 1 Township 99 N Range 50 W
Railroad Mile Post _____ Latitude 43o25'00.97" Longitude 96o41'40.46"
Within limits of public road or street? Yes ☒ No ☐ If yes, distance from center line of road: 0 ft.
Width of public road or street: 22 ft. Width of Public Road Right-of-Way: 66 ft.

PIPELINE:

(Note: For wire line see pg. 2)

Contents to be handled through pipeline: Raw Domestic Sanitary Wastewater

	CARRIER	**CASING**
Length of pipe on RR property (plastic pipe must be encased full width of ROW)	126 ft.	126 ft.
Inside diameter of pipe	36 in.	48 (w/Hobas) | 52 (w/PVC) | None (Hobas jack) in.
Pipe Material	HOBAS | PVC	Steel | None (uncased if HOBAS selected)
Specification & grade (Minimum yield strength casing 35,000 psi)	HOBAS - SN 46 | PVC - PS 115	Minimum 35,000 psi yield strength | (If HOBAS Carrier used w/o casing, SN>72)
Wall thickness (minimum wall thickness of casing pipe under 14 in. – 0.188 in E-80 Loading)	HOBAS - SN 46: t = 0.70" (with casing) PVC - PS 115: t = 1.37"	Steel 0.625" (w/48" Hobas) or 0.688" (w/52") (If HOBAS jacked used w/o casing, t = 1.85")
Actual working pressure	NA - Gravity Sewer	NA
Type of Joint	Mechanical ☐ Welded ☐	Mechanical ☐ Welded ☒

	CARRIER	CASING
Coating	None	None
Distance from base of rail to top of pipe (Flammable contents, steam, water or non-flammable – minimum 5 ½ ft. under main track) (uncased gaseous products – minimum 10' under track)	16 ft	15.5 ft
Minimum ground cover on RR property (minimum 3 ft.)	13.5 ft	13 ft
Cathodic protection casing (flammable substance)	NA	Yes, If steel casing is utilized

Type of insulators or support: _____ Size: _____ Space: _____
Number of Vents (flammable substances require 2 vents) 2 Size: 2" Height Above Ground: 4'

Does pipeline support an oil or gas well? Yes ☐ No ☒
If yes, distance from RR property. ft. Name of well:

Method of Crossing:

Jacking/Dry Bore ☒
(Jacking pit location min. 30 ft. from centerline of track. Pit must not be open more than 48 hrs. and must be protected when not in use.)

Trench ☐
(RR to furnish flagman at applicant's expense)

Horizontal Directional Drilling (HDD) ☐
(Jacking pit location min. 30 ft. from centerline of track. Pit must not be open more than 48 hrs. and must be protected when not in use.)

If installation is via Horizontal Direction Drilling (HDD) - Cutting head must travel at 0.0% grade (or downward) beginning 25' (minimum) from centerline of track until it reaches a point 25' (minimum) from the centerline of track. Minimum pressure must be applied to pumping the slurry to the cutting head during drilling. This will deter the bentonite slurry used for lubrication from seeping up and fouling the track roadbed. A BNSF Flagman must be present during installation and will monitor the ballast and roadbed.

WIRE LINE:

Kind of encroachment: Electric ☐ Communication ☐ If other, describe: _____
Type of wires/cables: _____ # of wires or cables: _____ Volts _____ Phase _____ Cycles _____
Conduits:
Occupied conduits: _____ Vacant conduits: _____ Total Conduits: _____
Length of encroachment: _____ Adjacent spans: _____ ft. _____ ft.
Appurtenances on RR Co. property: _____
Wire clearance over or under top of rail: _____ ft. over or _____ ft. under
If under track: kind of conduit _____ size of conduit _____
Wire clearance over RR Co. wire lines: _____

POLES

Kind: _____ Size: _____
Height: _____ Class: _____
Set in: Earth ☐ Rock ☐
Number of poles on RR property: _____
Distance of poles from track: _____

GUY WIRES

Overhead _____ Down _____
Kind _____ Size _____

CROSS ARMS

Material: _____
Size: _____ x _____ x _____

FRONT ELEVATION

INSULATORS
Material: _____
Type: _____ Size: _____

BRACKETS
Material: _____
Type: _____ Size: _____

CONDUCTORS
Material: _____
Type: _____ Size: _____

SIDE ELEVATION

LINE CHARACTERISTICS
Voltage: _____ Phase: _____ Cycle: _____

I agree that I have read the instructions for the installation of wire lines as detailed in the *Utility Accommodation Policy.*

Attached to this sheet is a location plan and a detailed sketch. Sketch should show tie-down measurement to centerline of nearest road crossing, bridge or other railroad structure.

Please authorize us to proceed with this installation or advise what changes are necessary to meet BNSF's specifications.

Date: _____

Signed: _____
Print Name: _____
Company: _____
Title: _____
Phone #: _____ Fax: _____

If you require additional assistance, please contact your Jones Lang LaSalle Brokerage, Inc. representative.

The cover letter and the executed contract will list the Roadmaster's name and phone number. **You will need to contact the Roadmaster or Wilson & Company ten (10) days prior to beginning work. The contact information will be provided to you when you receive your fully executed contract**

0 250 500 FT

SHEET No.: 1

SCALE REDUCTION BAR

JOB No.:	23453.00
DATE:	MARCH 2022
ENG / ARCH:	LDW
DESIGNER:	ASW
TECHNICIAN:	CKM

FOR REVIEW ONLY NOT FOR CONSTRUCTION

PROJECT / SHEET TITLE :

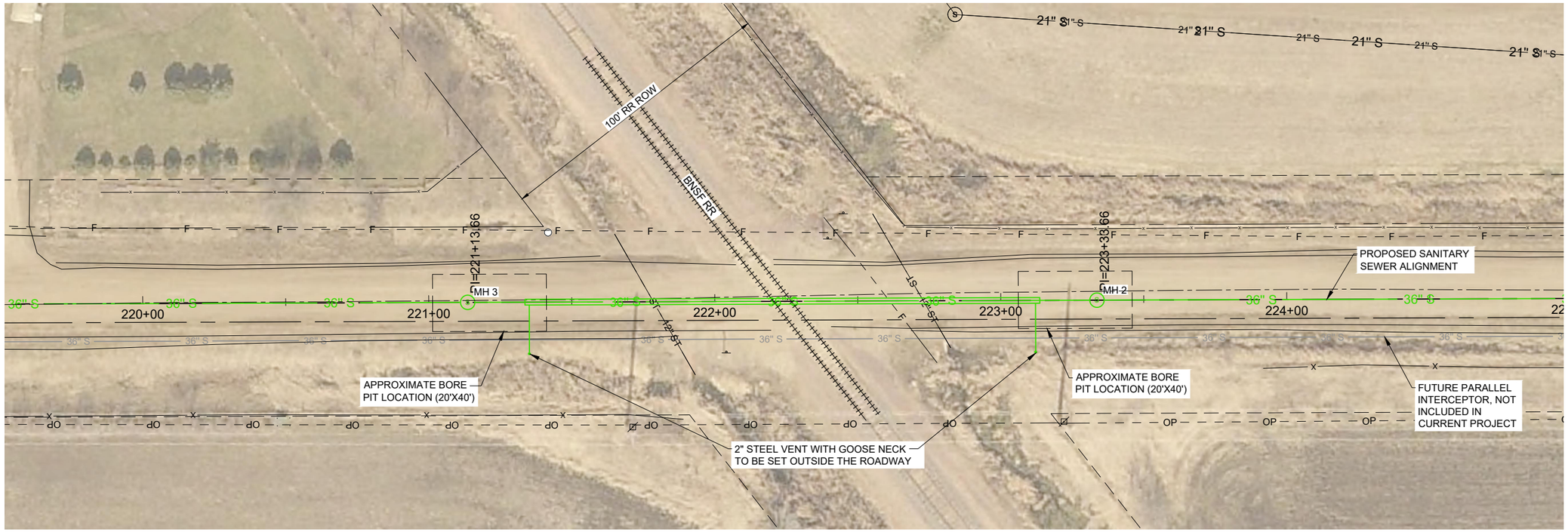
HARRISBURG WESTSIDE SANITARY SEWER EXTENSION - PHASE 1

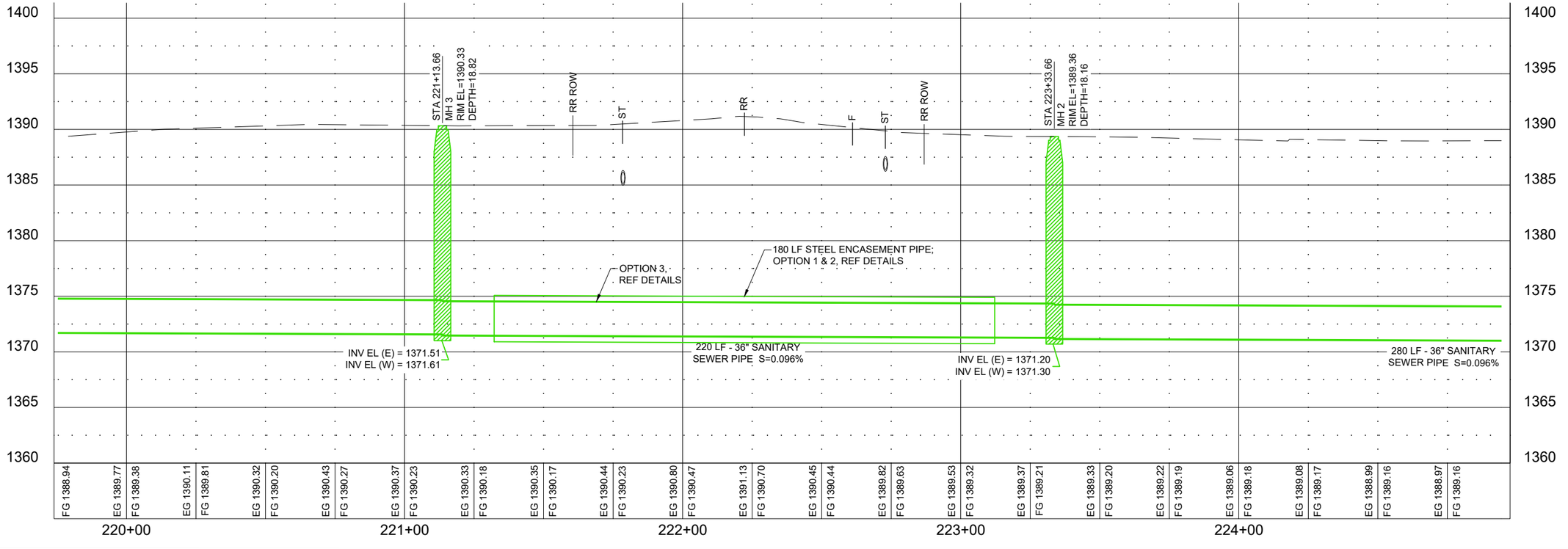
RAILROAD CROSSING LOCATION MAP

HARRISBURG, SOUTH DAKOTA

REV.	DATE	DESCRIPTION

BANNER
engineering a better community
www.bannerassociates.com - Toll Free: 1.855.323.6342





BANNER
engineering a better community
www.bannerassociates.com - Toll Free: 1.855.323.6342

PROJECT / SHEET TITLE:
HARRISBURG WESTSIDE SANITARY SEWER EXTENSION - PHASE 1
RAILROAD CROSSING PLAN & PROFILE
HARRISBURG, SOUTH DAKOTA

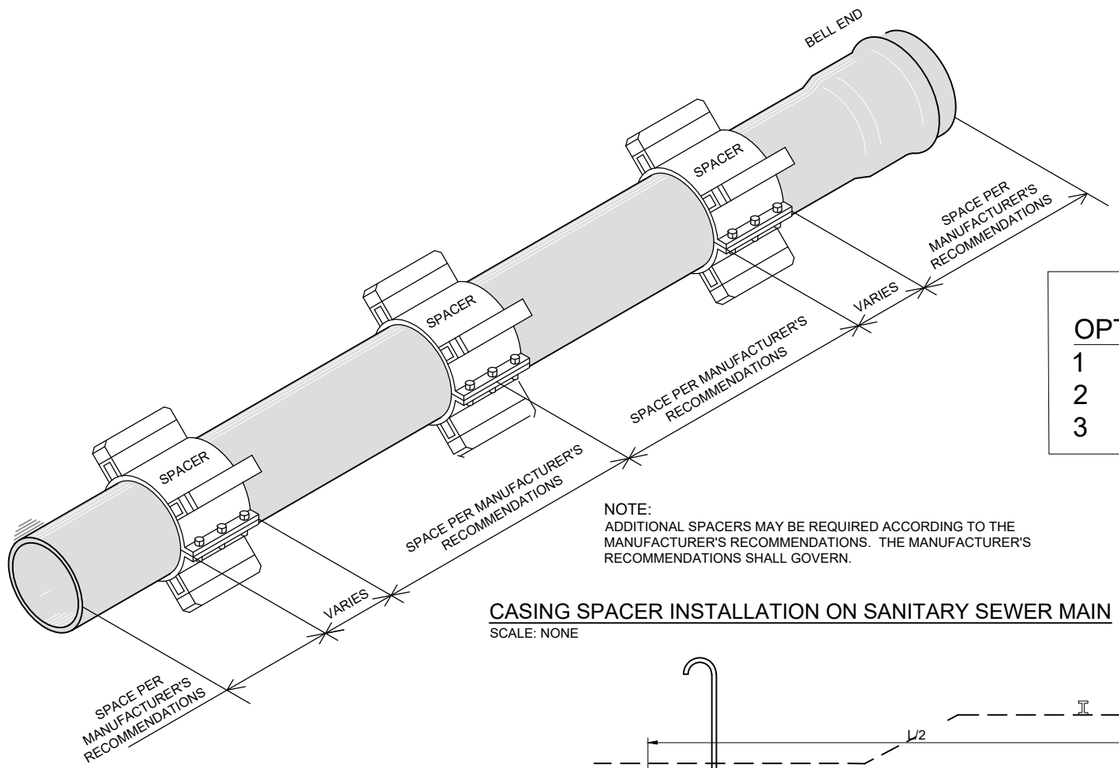
REV	DATE	DESCRIPTION

FOR REVIEW ONLY
NOT FOR CONSTRUCTION

JOB No.:	23453.00
DATE:	MARCH 2022
ENG / ARCH:	LDW
DESIGNER:	ASW
TECHNICIAN:	CKM

0 1/2" 1"
SCALE REDUCTION BAR

SHEET No. :
2

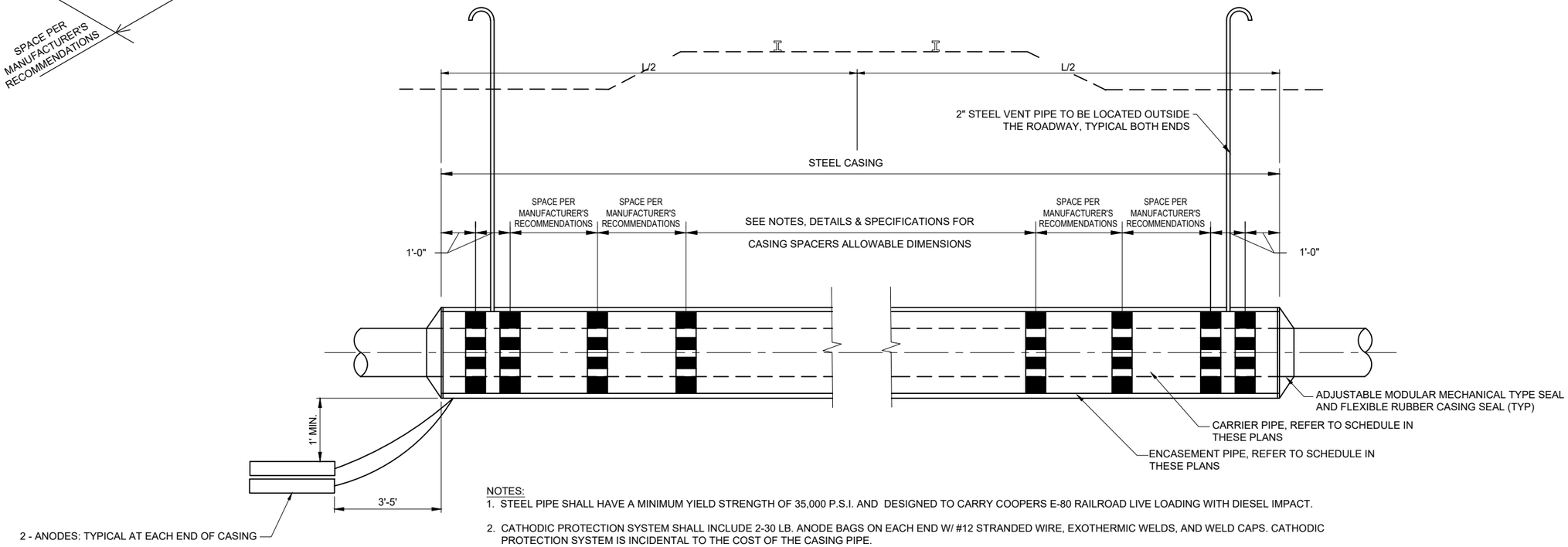


NOTE:
ADDITIONAL SPACERS MAY BE REQUIRED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS. THE MANUFACTURER'S RECOMMENDATIONS SHALL GOVERN.

OPTION	DESCRIPTION	CASING DIA.	CASING MIN. WALL THICKNESS
1	PVC W/ STEEL CASING	52"	0.688"
2	HOBAS W/ STEEL CASING	48"	0.625"
3	DIRECT JACKING HOBAS	N/A	N/A

CASING SPACER INSTALLATION ON SANITARY SEWER MAIN

SCALE: NONE



NOTES:

1. STEEL PIPE SHALL HAVE A MINIMUM YIELD STRENGTH OF 35,000 P.S.I. AND DESIGNED TO CARRY COOPERS E-80 RAILROAD LIVE LOADING WITH DIESEL IMPACT.
2. CATHODIC PROTECTION SYSTEM SHALL INCLUDE 2-30 LB. ANODE BAGS ON EACH END W/ #12 STRANDED WIRE, EXOTHERMIC WELDS, AND WELD CAPS. CATHODIC PROTECTION SYSTEM IS INCIDENTAL TO THE COST OF THE CASING PIPE.
3. ALL CASING JOINTS SHALL BE WELDED BY AN AWS CERTIFIED WELDER AND GIVEN A FIELD APPLICATION OF CORROSION COATING.
4. CASING PIPE, WHEN SEALED, SHALL BE PROPERLY VENTED. VENT PIPES SHALL BE OF SUFFICIENT DIAMETER, BUT IN NO CASE LESS THAN TWO (2) INCHES IN DIAMETER AND SHALL BE ATTACHED NEAR EACH END OF CASING PROJECTING THROUGH GROUND SURFACE AT PROPERTY LINES WITH A MARKER. THE MARKERS SHALL GIVE THE NAME, ADDRESS OF THE OWNER, AND A 24-HOUR PHONE NUMBER TO CONTACT IN CASE OF EMERGENCY. VENT PIPE SHALL EXTEND NOT LESS THAN FOUR (4) FEET ABOVE GROUND SURFACE. TOP OF VENT PIPES SHALL BE FITTED WITH A DOWN-TURNED ELBOW, PROPERLY SCREENED, OR A RELIEF VALVE.

TYPICAL ENCASEMENT PIPE JACKING SECTION

SCALE: NONE

BANNER
engineering a better community
www.bannerassociates.com - Toll Free: 1.855.323.6342

PROJECT / SHEET TITLE:
HARRISBURG WESTSIDE SANITARY SEWER EXTENSION - PHASE 1
RAILROAD CROSSING DETAILS
HARRISBURG, SOUTH DAKOTA

REV.	DATE	DESCRIPTION

FOR REVIEW ONLY
NOT FOR CONSTRUCTION

JOB No.:	23453.00
DATE:	MARCH 2022
ENG / ARCH:	LDW
DESIGNER:	ASW
TECHNICIAN:	CKM

0 1/2" 1"
SCALE REDUCTION BAR

SHEET No. :
3